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L2: Entry 27 of 58

File: USPT

Jul 6, 1999

DOCUMENT-IDENTIFIER: US 5919665 A

TITLE: Vaccine for clostridium botulinum neurotoxin

## CLAIMS:

1. A soluble fusion protein comprising a non-toxin protein sequence and a portion of of the Clostridium botulinum type A toxin, said portion of the Clostridium botulinum type A toxin comprising a portion of the sequence of SEQ ID NO:28.
2. The fusion protein of claim 1, wherein said portion of the Clostridium botulinum type A toxin sequence comprises SEQ ID NO:23.
3. The fusion protein of claim 1, wherein said non-toxin protein sequence comprises a poly-histidine tract.
6. A host cell containing a recombinant expression vector, said vector encoding a protein comprising at least a portion of a Clostridium botulinum type A toxin protein sequence of SEQ ID NO:28, and wherein said host cell is capable of expressing said protein as a soluble protein in said host cell at a level greater than or equal to 0.75% of the total cellular protein.
7. The host cell of claim 6, wherein said portion of a toxin comprises SEQ ID NO:23.
10. A soluble fusion protein, comprising at least a portion of Clostridium botulinum C fragment linked to a poly-histidine tag.

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L2: Entry 12 of 58

File: USPT

Feb 18, 2003

DOCUMENT-IDENTIFIER: US 6521235 B2  
TITLE: Alphavirus RNA replicon systems

## CLAIMS:

77. The composition of claim 51, wherein the immunogen is a Botulinum toxin C fragment immunogen.

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